

Amendments to the Claims:

Claims 1, 2 and 7 are amended herein. Claims 15-19 have been newly added. Claims 3-6 and 8-14 are canceled herein. Following entry of this amendment claims 1, 2, 7, and 15-19 are pending in the application. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A set of nucleic acid ~~tags~~ tag probes comprising at least ~~10~~ 1000 nucleic acid sequences chosen from the group consisting of:

~~SEQ ID NOS: 1-2000; and~~
~~the complements of SEQ ID NOS: 1-2000.~~

Claim 2. (currently amended) A ~~The~~ set of nucleic acid tags of ~~Claim 1~~ comprising at least ~~100~~ 1000 nucleic acid sequences chosen from the group consisting of:

~~SEQ ID NOS: 1-2000; and~~
~~the complements of SEQ ID NOS: 1-2000.~~

Claims 3-6. (canceled)

Claim 7. (currently amended) ~~The~~ A set of nucleic acid tag-probes of claim 1 attached to a solid support comprising at least ~~10~~ nucleic acid sequences chosen from the group consisting of:
~~SEQ ID NOS: 1-2000; and~~
~~the complements of SEQ ID NOS: 1-2000.~~

Claims 8-14. (canceled)

Claim 15 (new) The set of nucleic acid tags of claim 2 attached to a solid support.

Claim 16 (new) A set of nucleic acids comprising:

ATTORNEY DOCKET NO.: 3108.1
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a first set of nucleic acids comprising each of the sequences listed in SEQ ID NO. 1-2000,
a second set of nucleic acids comprising the complement of each of the first set of nucleic acids,
a third set of nucleic acids comprising the first set of nucleic acids wherein position 10 in each of SEQ ID NO. 1-2000 is changed to a mismatch, and
a fourth set of nucleic acids comprising the complement of each of the third set of nucleic acids.

Claim 17. (new) The set of nucleic acids of claim 16 attached to a solid support.

Claim 18. (new) The set of nucleic acids of claim 16 further comprising a first set of nucleic acids comprising each of the sequences listed in SEQ ID Nos. 2001-2050.

Claim 19. (new) The set of nucleic acids of claim 18 attached to a solid support.